

CLAIMS

1. A charging apparatus comprising a housing having an opening at one side; an openable supported door for shutting
5 the opening of the housing; and chargers for charging at least one object to be charged in the housing, wherein the chargers noncontactly supply electric power by electromagnetic induction from built-in coils of power
10 feeders to said at least one object having a built-in coil of a power receiver and a built-in battery.

2. The charging apparatus according to claim 1, further comprising an antenna for receiving high-frequency data signals; and a circuit for controlling chargers around the
15 object according to the data signals received by the antenna so as to drive a charger sending electromagnetic waves to the object from an optimal direction, wherein the high-frequency data signals are sent from an IC chip having a high-frequency oscillator circuit through an antenna
20 connecting to the IC chip, the IC chip and the antenna being attached to the object.

3. The charging apparatus according to claim 1, further comprising at least one shelf in the housing for receiving
25 the object, wherein the chargers for charging objects placed

on the shelf and/or on the inner face of the bottom of the housing are provided to the shelf and/or the housing.

4. The charging apparatus according to claim 2, further comprising at least one shelf in the housing for receiving the object, wherein the chargers for charging objects placed on the shelf and/or on the inner face of the bottom of the housing are provided to the shelf and/or the housing.

5. The charging apparatus according to claim 3, further comprising at least one standing partition on said at least one shelf and/or on the inner face of the bottom of the housing for partitioning the shelf and/or the inner face of the bottom of the housing into a plurality of spaces, wherein the object is placed at the space partitioned by the partition.

6. The charging apparatus according to claim 4, further comprising at least one standing partition on said at least one shelf and/or on the inner face of the bottom of the housing for partitioning the shelf and/or the inner face of the bottom of the housing into a plurality of spaces, wherein the object is placed at the space partitioned by the partition.

7. The charging apparatus according to claim 5, wherein at least one of the chargers is provided over said at least one partition.

5 8. The charging apparatus according to claim 6, wherein at least one of the chargers is provided on said at least one partition.

9. The charging apparatus according to claim 1, wherein
10 the housing includes a shielding body for shielding the outside from electromagnetic waves generated by the electromagnetic induction.

10. The charging apparatus according to claim 2, wherein
15 the housing includes a shielding body for shielding the outside from electromagnetic waves generated by the electromagnetic induction.

11. The charging apparatus according to claim 3, wherein
20 said at least one shelf has a shielding body for blocking electromagnetic waves generated by the electromagnetic induction below the shelf.

12. The charging apparatus according to claim 4, wherein
25 said at least one shelf has a shielding body for blocking

electromagnetic waves generated by the electromagnetic induction below the shelf.

13. The charging apparatus according to claim 5, wherein
5 said at least one partition has a shielding body for blocking electromagnetic waves generated by the electromagnetic induction.

14. The charging apparatus according to claim 6, wherein
10 said at least one partition has a shielding body for blocking electromagnetic waves generated by the electromagnetic induction.

15. The charging apparatus according to claim 1, wherein
15 the object includes a secondary battery detached from an electronic device and an adapter having the built-in coil of the power receiver and attached to the secondary battery.

16. The charging apparatus according to claim 2, wherein
20 the object includes a secondary battery detached from an electronic device and an adapter having the built-in coil of the power receiver and attached to the secondary battery.

17. The charging apparatus according to claim 1, wherein
25 the object is a secondary battery detachable from an

electronic device and having the coil of the power receiver.

18. The charging apparatus according to claim 2, wherein
the object is a secondary battery detachable from an
5 electronic device and having the coil of the power receiver.

19. The charging apparatus according to claim 1, wherein
the object is a portable electronic device.

10 20. The charging apparatus according to claim 2, wherein
the object is a portable electronic device.